

SOV/74-28-12-4/25

8th Mendeleyev Congress. Section of Organic Chemistry and Technology

chenko, Yu. S. Shabarov, A. L. Klebanskiy, V. F. Vosik, Yu. A. Zhdanov, I. V. Machinskaya, V. A. Barkhash, R. Ya. Levin, V. K. Daukshas, P. A. Kaykaris, N. K. Kochetkov, L. I. Kudryashov, B. P. Gottikh, S. N. Danilov, V. F. Kazimirova, A. A. Lopatenok, T. I. Temnikova, B. A. Arbuzov, A. I. Konovalova, M. N. Shchukina, V. G. Yashunskiy, M. S. Malinovskiy, A. G. Yudasina, M. B. Blinova, B. L. Moldavskiy, V. G. Babel', R. I. Rudakova, M. Sh. Usmanova, V. K. Tsyskovskiy, P. A. Moshkin, R. I. Kobzova, V. V. Nesmelov, N. M. Lebedeva, N. N. Terpilovskiy, O. V. Maminov, R. G. Danyushevskaya, N. I. Kobozev, Ye. N. Yeremin, M. F. Shostakovskiy, A. V. Bogdanova, N. A. Nikolayeva, G. Kh. Kamay, V. V. Perskalina, B. G. Yasnitskiy, Ye. B. Dol'berg, S. A. Sarkis'yants, Ts. I. Satanovskaya, A. P. Zaytaev, Sh. B. Aliyev, R. N. Degtyarenko, P. A. Moshkin, L. D. Pertsev, S. F. Kalinkin, A. A. Pryanishnikov, P. D. Borisov, A. N. Vodzinskaya, I. A. Grigorov, S. O. Skvortsov, V. P. Sumarokov, I. F. Chistov, S. V. Chepigo, M. Ye. Shpuntova, Ye. Ye. Shnayder, N. A. Vasyunina, G. S. Barysheva, Ye. S. Grigoryan, M. Z. Geras'kina, V. I. Isagulyants, L. N. Lavrishcheva, N. M. Przhivalgovskaya, N. N. Vorozhtsov, A. A. Ponomarenko, V. A. Izmail'skiy, P. A.

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8th Mendeleyev Congress, Section of Organic Chemistry and Technology

Solodkov, N. A. Kitrasskiy, A. A. Spryskov, A. I. Kiprianov,
A. I. Tolmachev, N. S. Dokunikhin, L. M. Yegorova, G. S. Lisen-
kova, B. A. Poray-Koshits, V. V. Kozlov, B. I. Belov, B. I.
Stepanov, I. P. Gragerov, M. P. Ponomarchuk, M. M. Aleksankin,
A. F. Rekasheva, E. P. Dar'yeva, B. A. Geller, V. V. Perekalin,
T. A. Abramovich, I. P. Gragerov, B. I. Kissin, D. M. Ushakov,
P. K. Krutkov, Z. I. Krutikova, Ye. M. Chernysheva, C. M. Bar-
kov, N. K. Moshchinskaya, Yu. N. Sheynker, S. A. Giller, L. A.
Pavlova, E. D. Venus-Danilova, A. Fabritsy, M. N. Shchukina,
K. M. Murav'yeva, Yu. K. Yur'yev, K. Yu. Novitskiy, M. I. Far-
berov, B. F. Ustavshchikov, A. M. Kut'in,, A. N. Nesmeyanov,
O. A. Reutov, N. S. Kochetkova, N. A. Vol'kenau, V. D. Vil'-
chevskaya, V. G. Yashunskiy, V. F. Vasil'yeva, R. Kh. Freydlina,
A. B. Belyavskiy, A. A. Petrov, Kh. V. Bal'yan, Ye. I. Vasil'-
yeva, Sh. A. Karapetyan, N. A. Semenov, R. G. Petrova, V. N.
Kost, T. T. Sidorova, S. T. Ioffe, Yu. N. Sheynker, T. A.
Mastryukov, K. A. Kocheshkov, N. I. Sheverdina, T. V. Talalayeva,
Ye. M. Panov, L. V. Abramova, V. N. Setkina, D. N. Kursanov,
Ye. V. Lykova, I. P. Beletskaya, O. A. Reutov, R. Ye. Mardal-
eyshvili, E. M. Braynina, A. N. Nesmeyanov, O. V. Nogina, Yu. P.

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8th Mendeleyev Congress. Section of Organic Chemistry and Technology

Kudryavtsev, L. I. Zakharkin, I. L. Knunyants, R. N. Sterlin,
A. N. Nesmeyanov, L. S. Isayeva, T. P. Tolstaya, B. M. Mikhaylov,
P. M. Aronovich, A. N. Blokhina, T. K. Kozminskaya, T. V.
Kostroma, N. S. Fedotov, T. A. Shchegoleva, V. F. Velichko,
T. P. Tolstaya, A. N. Nesmeyanov, L. S. Isayeva, L. G. Makarova,
O. A. Ptitsyna, O. A. Reutov, A. E. Shipov, T. Ya. Medved',
Ye. N. Tsvetkova, G. Kh. Kamay, V. S. Balabukh, G. K. Kozlova,
Ye. A. Mironova, L. I. Tikhonova are mentioned. In the re-
solutions approved of by the Section, it was noted that lectures
and communications give evidence of a noteworthy progress in
scientific research work in the field of organic chemistry and
technology which are being performed in the different republics
and towns of the USSR. The Section calls the attention of
the Management of the All-Union Chemical Society imeni D. I.
Mendeleyeva and the Office of the Department of Chemical
Sciences of the AS USSR to the necessity of driving ahead work
to establish a uniform nomenclature of organic compounds. It
is necessary to publish, in addition, a series of monographs
on methods of synthesis for elemental organic compounds as
well as a specialized textbook designed for this field.

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SOV/74-28-12-25

5(0)
AUTHORS:Kozlov, V. V., Vol'fkovich, S. I.

TITLE:

8th Mendeleev Congress. Section of Analytical Chemistry

PERIODICAL:

Uspekhi khimii, 1959, Vol 28, Nr 12, pp 1415-1417 (USSR)

ABSTRACT:

The Section of Analytical Chemistry (Ref 17) was working under the guidance of: Corresponding Member AS USSR I. P. Alimarin, Deputy: Doctor of Chemical Sciences A. I. Busev, Secretaries: Z. I. Podgayskaya, G. N. Bilimovich. Academician AS Ukrainskaya SSR A. K. Babko, Doctor of Chemical Sciences A. K. Ruzhentseva, Professor V. I. Petrashen', Doctor of Chemical Sciences Yu. S. Lyalikov, Doctor Kuznetsov, Doctor of Chemical Sciences A. K. Rusanov, Doctor of Physical and Mathematical Sciences D. I. Ryabchikov, Corresponding Member of the Chemical Sciences M. T. Kozlovskiy, Professor V. A. Nazarenko presided over the individual meetings of the Section. Lectures held by: I. P. Alimarin, I. V. Tananayev, K. B. Yatsimirskiy, Ye. F. Naryshkina, L. P. Rayzman, Yu. I. Klyachko, V. M. Peschkova, V. M. Bochkova, V. I. Kuznetsov, A. I. Busev, M. I. Ivanyutin, A. I. Portnov, R. P. Lastovskiy, Yu. I. Vaynshteyn, N. M. Dyatlova, V. Ya. Temkina, I. D. Kilpakova, V. A. Nazarenko,

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8th Mendeleyev Congress. Section of Analytical Chemistry

Ye. A. Biryuk, G. G. Shitareva, L. I. Kononenko, V. K. Kuznetsova, N. A. Tananayeva, V. A. Obolonchik, I. P. Alimarin, G. N. Bilimovich, D. I. Ryabchikov, A. N. Yermakov, V. K. Belyayeva, N. M. Marov, A. K. Babko, V. F. Toropova, Z. Kh. Shakhova, R. K. Motorkina, S. A. Gavrilova, Ye. N. Semenovskiy, A. I. Kokorin, N. A. Polotebnova, E. Ye. Vaynshteyn, Yu. I. Belyayev, V. V. Korolev, N. S. Poluektov, A. G. Karabash, Sh. I. Payzulayev, L. I. Moseyev, Yu. V. Morachevskiy, I. A. Stolyarova, M. O. Korshun, N. E. Gel'man, K. I. Glazova, N. S. Sheveleva, N. I. Larina, V. A. Klimova, Ye. G. Bereznitskaya, Ye. N. Merkulova, S. I. Sinyakova, Z. B. Rozhdestvenskaya, I. A. Yarovoy, Ya. P. Gokhshteyn, Yu. S. Lyalikov, M. B. Bar din, Yu. S. Temyanko, I. D. Panchenko, N. I. Udal'tsova, P. N. Paley, M. M. Senyavin, N. K. Galkina, A. M. Sorochan, N. G. Polyanskiy, A. S. Vernidub, V. I. Petrashen', A. A. Zhukhovitskiy, P. M. Turkel'taub are mentioned. The lectures dealt with chief trends in analytical chemistry: physical and physico-chemical analytical methods, use of new organic reagents, organic elementary microanalysis, chromatographic analysis, ✓

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8th Mendeleyev Congress. Section of Analytical Chemistry

use of tagged atoms in analytical chemistry.



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SOV/74-28-12-6/25

AUTHORS:

Kozlov, V. V., Vol'fkovich, S. I.

TITLE:

8th Mendeleev Congress. Section of Physical Chemistry

PERIODICAL:

Uspekhi khimii, 1959, Vol 28, Nr 12, pp 1417-1419 (USSR)

ABSTRACT:

The Section of Physical Chemistry (Ref 18) was working under the guidance of: Academician V. N. Kondrat'yev, Deputy: Corresponding Member AS USSR V. V. Voyevodskiy, Corresponding Member AS USSR K. V. Chmutov, Corresponding Member AS USSR G. K. Boreskov, Scientific Secretary: Candidate of Chemical Sciences V. Ya. Shlyapintokh, Secretaries: Candidate of Chemical Sciences D. G. Knorre, Candidate of Chemical Sciences V. I. Vedeneyev. The individual meetings of the Section were held with Academician V. N. Kondrat'yev, Academician A. A. Balandin, Corresponding Member AS USSR V. V. Voyevodskiy, Corresponding Member AS USSR K. V. Chmutov, Professor A. A. Sokolov, Corresponding Member AS USSR N. M. Emanuel', Corresponding Member AS USSR G. K. Boreskov, Professor N. B. Neyman, Corresponding Member AS USSR Ya. I. Gerasimov, Professor D. N. Frank-Kamenetskiy, Professor K. P. Mishchenko, Corresponding Member AS USSR S. Z. Roginskiy in the chair. Ac- ✓

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8th Mendeleev Congress. Section of Physical Chemistry

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tivity of the Section took place in 3 subsections: Kinetics of Chemical Reactions; Structure of the Matter; Catalysis and Adsorption. Lectures held by: V. N. Kondrat'yev, V. V. Voyevodskiy, N. M. Emanuel', M. B. Neyman, K. K. Andreyev, N. N. Semenov, A. B. Nalbandyan, L. V. Karmilova, N. S. Yenikolopyan, N. V. Topchiyev, I. V. Patsevich, V. Ya. Shtern, A. P. Ballod, T. V. Fedorova, S. I. Molchanova, Ya. B. Zel'dovich, A. S. Sokolik, L. A. Lovachev, A. N. Terenin, F. I. Vilesov, M. V. Vol'kenshteyn, P. P. Shorygin, Z. S. Yegorova, I. V. Aleksandrov, N. D. Sokolov, S. A. Al'tshuller, K. A. Valiyev, A. I. Rivkind, B. M. Kozyrev, P. G. Tishkov, V. I. Avvakumov, L. A. Blyumenfel'd, S. Ya. Frenkel', S. Ye. Bresler, A. I. Kitaygorodskiy, Z. V. Zvonkova, V. V. Tarasov, V. V. Voyevodskiy, A. V. Storonkin, A. G. Morachevskiy, M. P. Susarev, M. M. Shul'ts, M. I. Usanovich, S. S. Urazovskiy, D. S. Tsiklis, Ya. I. Tur'yan, M. M. Dubinin, V. F. Kiselev, K. G. Krasil'nikov, A. V. Kiselev, A. Ya. Korolev, K. D. Shcherbakova, S. Z. Roginskiy, K. G. Boreskov, D. V. Sokol'skiy, Ya. B. Gorokhovatskiy, A. A. Balandin, V. E. Vasserberg, M. P. Maksimova, T. V. Georgiyevskaya, V. Kh. Matyushenko, A. A. Tolstopiatova,

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8th Mendeleev Congress. Section of Physical Chemistry

M. V. Polyakov, V. V. Shal', Z. Z. Vysotskiy, A. M. Rubinshteyn, M. T. Rusov, A. A. Slinkin, V. I. Yakerson are mentioned. In a resolution taken by the Section, it was noted that progress in theoretical and experimental investigations in the field of topochemical reactions is staying somewhat behind the general level of work in the field of chemical kinetics. Too little physical and physico-chemical methods are being used. It would be more appropriate to establish new laboratories and a central head office.

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SOV/74-28-12-7/25

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AUTHORS:

Kozlov, V. V., Vol'fkovich, S. I.

TITLE:

8th Mendeleev Congress. Section of Colloid Chemistry

PERIODICAL:

Uspekhi khimii, 1959, Vol 28, Nr 12, pp 1419-1422 (USSR)

ABSTRACT:

The Section of Colloid Chemistry (Ref 19) was working under the guidance of: Academician P. A. Rebiner; Deputy: Doctor of Technical Sciences N. V. Mikhaylov; Scientific Secretary: Professor G. I. Fuks. Academician P. A. Rebiner, Academician AS Belorusskaya SSR N. F. Yermolenko, Professor Ye. M. Aleksandrova, Corresponding Member AS USSR B. V. Deryagin, Professor M. Ye. Shishniashvili presided over the individual meetings of the Section. Lectures held by: V. P. Smilga, B. V. Deryagin, N. A. Krotova, L. P. Morozova, Yu. F. Deynega, A. V. Dumanskiy, G. V. Vinogradov, I. Ye. Neymark, V. V. Karasev, B. V. Deryagin, G. I. Fuks, M. S. Ostrikov, S. I. Popel', N. V. Pertsov, N. F. Yermolenko, Z. A. Krivchik, A. B. Taubman, S. A. Nikitina, P. I. Yermilov, I. Ye. Neymark, P. V. Moryganov, B. N. McL'nikov, V. F. Androsov, A. A. Kharkharov, V. F. Boyko, Ye. M. Aleksandrova, V. N. Tsvetkov, N. S. Razumikhina, A. I. Yurzhenko, R. V. Kucher, A. B. Taubman, A. F. Koretskiy, M. A. Kovbuz, S. M. ✓

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8th Mendeleev Congress. Section of Colloid Chemistry

Levi, Z. Ya. Berestneva, V. A. Kargin, B. V. Deryagin, Yu. M. Glazman, D. N. Strazhesko, E. M. Natanson, S. Ye. Kharin, K. S. Lyalikov, P. M. Silin, P. A. Rebinder, Ye. Ye. Segalova, M. P. Volarovich, I. V. Churayev, N. V. Mikhaylov, Ye. Ye. Kalmykova, O. P. Mcchedlov-Petrosyan, F. A. Latyshev, A. G. Bunakov, N. A. Levchuk, V. I. Yakimova, S. L. Talmud, K. P. Mishchenko, A. A. Morozov, S. N. Stavrov, L. I. Belen'kiy, M. Ye. Kazanskaya, T. V. Bromberg, P. A. Demchenko are mentioned. In the resolution taken by the Section, it was pointed to great progress achieved in applied theoretical colloid chemistry in the USSR. The attention of the OKhN AS USSR was called to the advantages of establishing an Institut fiziko-khimicheskoy mehaniki (Institute of Physico-chemical Mechanics). ✓

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SOV/74-28-12-8/25

5(0)
AUTHORS:Kozlov, V. V., Vol'fkovich, S. I.

TITLE:

8th Mendeleyev Congress. Section of Chemistry and Technology
of Polymers

PERIODICAL:

Uspekhi khimii, 1959, Vol 28, Nr 12, pp 1422-1423 (USSR)

ABSTRACT:

The Section of Chemistry and Technology of Polymers¹ (Refs 21, 48-49,54) was working under the guidance of: Academician V. A. Kargin; Deputy: Professor Z. A. Rogovin; Scientific Secretary: Candidate of Chemical Sciences Yu. M. Malinskiy. Academician V. A. Kargin, Academician S. S. Medvedev, Professor Z. A. Rogovin, Professor N. N. Shorygina, Professor G. L. Slonimskiy, Corresponding Member AS USSR V. V. Korschak presided over the individual meetings of the Section. Lectures held by: I. P. Lossev, L. A. Datskevich, K. D. Petrov, O. K. Gosteva, V. I. Pukhova, K. A. Andrianov, A. A. Zhdanov, O. Ya. Fedotova, N. I. Skripchenko, I. P. Losev, G. I. Kudryavtsev, Ye. A. Vasil'yeva-Sokolova, M. A. Zharkova, S. N. Ushakov, V. A. Kargin, P. V. Kozlov, N. A. Plate, I. I. Konoreva, Ye. V. Kuznetsov, S. S. Spasskiy, A. V. Tokarev, M. A. Mikhaylov, A. I. Tarasov, T. V. Molchanov, M. Ye. Mat'kov, V. V. Korshak, S. L. Sosin, M. V.

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8th Mendoleev Congress. Section of Chemistry and Technology of Polymers

Chistyakova, M. S. Akutin, B. M. Kovarskaya, L. I. Golubenkova,
K. N. Vlasova, S. P. Kalinina, N. Ya. Parlashkevich, V. N.
Kotrelev, Z. N. Tarasova, M. Ya. Kaplunov, N. A. Klauzen, B. A.
Dogadkin, V. L. Karpov, V. K. Lyubeznikov, M. G. Zaripova,
Yu. L. Margolina, B. A. Dogadkin, O. N. Belyatskaya, N. S.
Fel'dshteyn, I. I. Eytington, Z. N. Nudel'man, A. S. Novikov,
K. F. Kaluzhenina, N. P. Zinchenko, G. N. Buyko, N. M. Arenzon,
A. I. Tumanova, V. A. Kargin, A. S. Novikov, F. A. Galil-Ogly,
G. M. Bartenev, N. V. Zakharenko, F. S. Tolstukhina, A. S. Kuz'-
minskiy, T. G. Degteva, A. A. Vansheydt, N. N. Kuznetsova, F. T.
Shostak, Z. A. Rogovin, V. A. Derevitskaya, N. V. Mikhaylov,
Z. G. Serebryakova, N. N. Shorygina, A. A. Chuksanova, A. F.
Semechkina, L. L. Sergeyeva, A. B. Pakshver, L. V. Kozlov,
V. I. Selikhova, G. S. Markova, V. A. Kargin, V. A. Kargin, V. A.
Kabanov, I. Yu. Marchenko, V. Ye. Gul' are mentioned. ✓

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SGV/74-2E-12-11/25

5(0)
AUTHORS:Kozlov, V. V., Vol'fkovich, S. I.

TITLE:

8th Mendeleev Congress. Section of Chemistry and Chemical Technology of Fuels

PERIODICAL:

Uspekhi khimii, 1959, Vol 28, Nr 12, pp 1426-1428 (USSR)

ABSTRACT:

The Section of Chemistry and Chemical Technology of Fuels (Ref 24) was working under the guidance of: Corresponding Member AS USSR N. I. Shuykin; Deputy: Corresponding Member AS USSR N. M. Karavayev; Scientific Secretary: M. A. Ryashentseva. The activity of the Section was divided into two topics: Petroleum Chemistry, and Coal Chemistry. Corresponding Member AS USSR N. I. Shuykin, Corresponding Member AS USSR N. M. Karavayev, Doctor of Chemical Sciences N. V. Lavrov, Doctor of Chemical Sciences N. G. Titov, Corresponding Member AS USSR A. D. Petrov, Candidate of Chemical Sciences S. I. Khromov, Professor A. F. Plate, Doctor of Chemical Sciences S. R. Sergiyenko, Professor N. I. Chernozhukov, Candidate of Technical Sciences V. P. Sukhanov presided over the individual meetings of the Section. Lectures held by: V. P. Sukhanov, N. M. Karavayev, N. V. Lavrov, N. I. Shuykin, N. G. Bekauri, A. F. ✓

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8th Mendeleyev Congress. Section of Chemistry and Chemical Technology of Fuels

Plate, S. R. Sergiyenko, A. D. Petrov, V. I. Isagulyants, G. N. Maslyanskiy, V. A. Kobelev, N. R. Bursian, M. I. Ryskin, A. S. Fomina, L. Ya. Pobul', Z. A. Degtyareva, A. A. Kruglikov, M. A. Menkovskiy, A. N. Aleksandrova, K. Yu. Volkov, S. A. Gordon, L. V. Petrovskaya, V. M. Ratynskiy, T. I. Sendul'skaya, N. I. Shuykin, T. I. Naryshkina, I. M. Artyukhov, D. I. Zul'fugarly, B. A. Kazanskiy, S. I. Khromov, Ye. S. Balenkova, N. A. Seidova, Al. A. Petrov, S. V. Adel'son, T. Kh. Melik-Akhnazarov, I. I. Mukhin, D. I. Orochko, N. A. Chepurov, V. N. Kozlov are
mentioned.

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AUTHORS:

Kozlov, V. V., Vol'fkovich, S. I.

SOV/74-28-12-13/25

TITLE:

8th Mendeleyev Congress. Section of Chemistry and Technology of Silicates

PERIODICAL:

Uspekhi khimii, 1959, Vol 28, Nr 12, pp 1429-1431 (USSR)

ABSTRACT:

The Section of Chemistry and Technology of Silicates (Refs 26, 57) was working under the guidance of: Academician AS UkrSSR P. P. Budnikov; Deputies: Academician of the Akademiya stroitel'stva i arkhitektury (Academy of Civil Engineering and Architecture) N. A. Toropov, Corresponding Member AS Ukrainskaya SSR O. P. Mchedlov-Petrosyan; Scientific Secretary: Candidate of Technical Sciences I. V. Kravchenko. Secretaries were: A. Ye. Rempel', N. V. Petrovykh, V. V. Myshlyayeva. Academician AS Ukrainskaya SSR P. P. Budnikov, Academician of the Academy of Civil Engineering and Architecture N. A. Toropov, Professor Yu. M. Butt, Professor V. V. Stol'nikov, Professor I. I. Kitaygorodskiy, Professor I. F. Ponomarev, Docent S. M. Royak presided over the individual meetings. The following topics were treated in the lectures: General Silicate Chemistry; Chemistry and Technology of Ceramics and Refractories; Binders and Glass.

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SOV/74-28-13/25

8th Mendeleyev Congress. Section of Chemistry and Technology of Silicates

Lectures held by: P. P. Budnikov, Yu. M. Butt, S. K. Dubrovo, I. I. Kitaygorodskiy, Yu. A. Shmidt, V. A. Ioffe, M. K. Gal'perin, V. I. Minenko, S. M. Petrova, P. P. Budnikov, V. G. Savel'yev, O. M. Astreyeva, V. I. Guseva, N. S. Popov, N. S. Zavgorodniy, K. S. Kutateladze, N. G. Dzhincharadze, I. V. Kravchenko, Ye. V. Podushko, L. N. Rashkevich, Yu. M. Butt, V. F. Fedoryakin are mentioned. It is noted in the resolution that the most important tasks in the field of chemistry and technology for the next years are the extension of research work and the improvement of operational processes. ✓

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5(0)
AUTHORS:Kozlov, V. V., Vol'fkovich, S. I.

SOV/74-28-12-14/25

TITLE:

8th Mendeleyev Congress. Section of Radiochemistry and Isotope Chemistry

PERIODICAL:

Uspekhi khimii, 1959, Vol 28, Nr 12, pp 1431-1433 (USSR)

ABSTRACT:

The Section of Radiochemistry and Isotope Chemistry (Ref 27) was working under the guidance of Academician A. P. Vinogradov; Deputy: Academician AS Ukrainskaya SSR A. I. Brodskiy; Scientific Secretaries: Candidate of Chemical Sciences A. N. Yermakov, Candidate of Chemical Sciences G. A. Nekrasova. Academician A. P. Vinogradov, Corresponding Member AS USSR I. Ye. Starik, Academician V. I. Spitsyn, Academician S. S. Medvedev, Academician AS Ukrainskaya SSR A. I. Brodskiy, Corresponding Member AS USSR N. M. Zhavoronkov presided over the meetings of the Section. Lectures held by: A. P. Vinogradov, A. K. Lavrukhina, S. S. Rodin, A. A. Pozdnyakov, I. P. Alimarin, Yu. A. Zolotov, Yu. P. Novikov, P. N. Paley, Ye. S. Pal'shin, G. N. Yakovlev, I. P. Semenov, G. N. Flerov, A. D. Gel'man, Yu. B. Gerlit, V. M. Vdovenko, M. P. Koval'skaya, T. V. Kovaleva, A. A. Lipovskiy, M. G. Kuzina, L. N. Lazarev, S. Yu. Yelovich, B. K. ✓

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SOV/74-28-12-14/25

8th Mendeleyev Congress. Section of Radiochemistry and Isotope Chemistry

Preobrazhenskiy, A. V. Kalyamin, O. M. Lilova, I. Ye. Starik, V. I. Grebenishchikova, R. V. Bryzgalova, N. B. Chernyavskaya, V. I. Bobrova, K. B. Zaborenko, I. V. Kolosov, V. V. Fomin, An. N. Nesmeyanov, Ye. A. Borisov, I. Zvara, B. G. Dzantiyev, B. A. Kuznetsov, A. D. Maliyevskiy, Ts. I. Zal'kind, N. B. Miller, G. S. Tyurikov, G. Z. Gochaliyev, V. I. Veselovskiy, N. A. Bakh, L. G. Bugayenko, V. I. Medvedovskiy, A. A. Revina, L. S. Polak, A. V. Topchiyev, N. Ya. Chernyak, S. Ya. Pshezhetskiy, M. A. Proskurnin, Ye. A. Shilov, F. M. Vaynshteyn, L. L. Strizhak, A. I. Brodskiy, K. I. Sakodynskiy, S. I. Bobkov, N. M. Zhavoronkov, A. A. Balandin, V. I. Spitsyn, L. I. Barkova, V. I. Duzhenkov, Yu. S. Lazurkin, M. A. Makul'skiy, N. N. Sevryugova, O. V. Uvarov, S. I. Babkov, G. N. Chernykh, V. A. Sokol'skiy, N. M. Zhavoronkov, I. B. Rabinovich, N. N. Tunitskiy, M. V. Gur'yev, M. V. Tikhomirov, V. L. Tal'roze, Ye. L. Frankevich are mentioned. Out-of-program lectures were held by: I. P. Selinov, N. N. Krot, A. G. Kozlov, V. P. Shvedov, A. V. Stepanov, M. M. Senyavin, I. Ya. Petrov, V. L. Karpov, V. A. Nikishina, V. P. Meshcheryakov, B. S. Kir'yanov, A. P. Smirnov-Averin, B. V. Ershler, M. A. Nezhevenko, G. G. Misishcheva, I. V. Vereshchinskiy, A. K. Pikayev, P. Ya. Glazunov, Ya. M.

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8th Mendeleyev Congress. Section of Radiochemistry and Isotope Chemistry
SOV/74-28-12-14/25

Varshavskiy, V. L. Karpov, I. Ya. Petrov, Z. S. Bulanovskaya,
A. M. Rozen, A. B. Anufriyev, A. D. Bondar', N. G. Zaytseva,
Lo Weng-chung.

Card 3/3

5(0)

AUTHORS:

Kozlov, V. V., Vol'fkovich, S. I.

SCV/74-28-12-15/25

TITLE:

8th Mendeleyev Congress. Section of Theoretical and Applied
Electrochemistry

PERIODICAL:

Uspekhi khimii, 1959, Vol 28, Nr 12, pp 1433-1436 (USSR)

ABSTRACT:

The Section of Theoretical and Applied Electrochemistry (Ref 28) was working under the guidance of: Academician A. N. Frumkin; Deputy: Professor S. I. Sklyarenko; Scientific Secretary: Candidate of Chemical Sciences T. V. Kalish. Academician A. N. Frumkin, Professor Ya. M. Kolotyrkin, Corresponding Member AS USSR and President of the Akademiya nauk Litovskoy SSR (Academy of Sciences of the Lithuanian SSR) Yu. Yu. Matulis, V. I. Veselovskiy, Academician AS Ukrainskaya SSR Yu. K. Delimarskiy, Professor Ya. V. Durbin, Doctor of Technical Sciences L. M. Yakimenko, Professor N. D. Tomashov, Professor B. N. Kabanov, Professor Yu. V. Baymakov presided over the individual meetings of the Section. Lectures held by: A. N. Frumkin, L. M. Yakimenko, Yu. V. Baymakov, S. I. Sklyarenko, V. V. Stender, R. I. Agladze, A. I. Nizhnik, N. A. Izmaylov, N. P. Nikol'skiy, M. M. Shul'ts, N. V. Poshekhanova, A. I. Parfenova, O. V. Mazarin, N. Ye. Khomutov, I. S. Golinker, V. G. Levich, Ya. M.

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8th Mendeleev Congress. Section of Theoretical and Applied Electrochemistry

SOV/74-28-12-15/25

Kolotyrkin, L. A. Medvedeva, N. V. Nikolayeva-Fedorovich, O. A. Petriy, A. N. Frumkin, S. V. Gorbachev, M. A. Loshkarev, I. P. Chernobayev, B. I. Tomilov, A. G. Stromberg, D. P. Sosimovich, B. N. Kabanov, A. T. Vagramyan, A. P. Popkov, N. T. Kudryavtsev, G. K. Smolenskaya, V. M. Karatayeva, R. G. Golovchanskaya, V. V. Andreyev, T. P. Stepanova, Ye. S. Volkova, I. V. Krotov, V. M. Berenblit, I. Ya. Lantratova, A. I. Shultin, G. I. Volkov, D. P. Semchenko, K. G. Il'in, M. F. Lantratov, A. Ya. Alabyshev, Yu. Yu. Matulis, K. M. Gorbunova, Yu. M. Polukarov, O. S. Popova, A. A. Sutyagin, G. M. Kamar'yan, I. L. Rozenfel'd, V. P. Maksimchuk, L. K. Lepin', A. Ya. Vayvade, A. K. Lokenbackh, Yu. K. Delimarskiy, K. N. Kalabina, V. V. Kuz'movich, T. P. Kaptsova, S. I. Sklyarenko, V. I. Konstantinov, Ye. A. Markina, V. M. Amosov are mentioned. In the resolution, it is stressed that a broad-scale introduction of electrochemical production methods into industry is required, if the tasks of the 7 Years Plan are to be fulfilled.

Card 2/2

5(0)

AUTHORS:

Kozlov, V. V., Vol'fkovich, S. I.

SOV/74-28-12-16/25

TITLE:

8th Mendeleyev Congress. Section of the Chemistry of Metals and Alloys

PERIODICAL:

Uspekhi khimii, 1959, Vol 28, Nr 12, pp 1436-1437 (USSR)

ABSTRACT:

The Section of Chemistry of Metals and Alloys (Ref 29) was working under the guidance of Corresponding Member AS USSR N. V. Ageyev; Deputy: Professor I. I. Kornilov; Scientific Secretary: Candidate of Technical Sciences R. S. Polyakova. Academician I. P. Bardin, Professor Ye. Ye. Cherkashin, Professor Ye. M. Savitskiy, Professor Ye. S. Makarov, Professor I. I. Kornilov, Corresponding Member AS USSR N. V. Ageyev presided over the individual meetings of the Section. Lectures held by: N. V. Ageyev, I. I. Kornilov, Ye. M. Savitskiy, A. M. Yevseyev, Ya. I. Gerasimov, A. V. Nikol'skaya, A. Ya. Shonyayev, K. G. Khomyakov, V. A. Troshkina, Yu. D. Tret'yakov, Ye. Ye. Cheburkova, T. A. Borcheva, M. F. Alekseyenko, Ye. L. Bushanova, L. V. Zaslavskaya, S. T. Kishkin, G. N. Orekhov, A. F. Platonov, N. M. Popova, G. M. Rovenskiy, K. P. Sorokina, N. I. Blok, N. F. Lashko, M. N. Kozlova, Ye. S. Makarov, Ye. I.

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SOV/74-28-12-16/25

8th Mendeleev Congress. Section of the Chemistry of Metals and Alloys

Gladyshevskiy, P. I. Kripyakewich, Yu. B. Kuz'ma, Yu. N. Andreyev, G. S. Zhdanov, V. K. Grigorovich are mentioned. A joint meeting together with the Section of Inorganic Chemistry and the Section of Physical Chemistry was held on March 18. Lecturers were: N. N. Sirota, B. F. Ormont, L. G. Dudkin, Z. G. Pinsker, Ya. A. Ugay, N. A. Goryunova. In the resolution, the necessity to extend considerably work in the field of physico-chemical analysis, the study of phase diagrams, and the crystal chemistry of metal alloys was stressed. ✓

Card 2/2

5(0)

SOV/74-28-12-17/25

AUTHORS:

Kozlov, V. V., Vol'fkovich, S. I..

TITLE:

8th Mendeleyev Congress.. Section of Economics, Planning, and Organization of Chemical Plants

PERIODICAL:

Uspekhi khimii, 1959, Vol 28, Nr 12, pp 1437-1439 (USSR)

ABSTRACT:

The Section of Economics, Planning, and Organization of Chemical Plants (Refs 30,59) was working under the guidance of: Corresponding Member AS USSR N. N. Nekrasov; Deputy: Professor N. P. Fedorenko; Scientific Secretary: A. L. Rabkina. Corresponding Member AS USSR N. N. Nekrasov, Professor S. A. Perushin, Professor N. P. Fedorenko, Professor L. I. Rayburg, Professor A. I. Dzens-Litovskiy presided over the individual meetings of the Section. Lectures held by: N. N. Nekrasov, P. A. Khokhryakov, G. F. Borisovich, A. I. Ravidel', N. A. Zeligman, V. G. Fridenberg, S. A. Pervushin, S. Ya. Rachkovskiy, N. P. Fedorenko, Ye. P. Shchukin, N. P. Fedorenko, G. F. Borisovich, Ye. P. Ivanova are mentioned. In its resolution, the Section has pointed to the fact that the fulfillment of the 7 Years Plan requires a detailed study of methods to be used for the most

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SOV/74-28-12-17/25

8th Mendeleyev Congress: Section of Economics, Planning, and Organization of Chemical Plants

effective utilization of material and manpower resources. The attention of the Gosplan SSSR (State Planning Board of the USSR), Otdeleniye ekonomicheskikh nauk AN SSSR (Department of Economical Sciences of the AS USSR), Goskomitet Soveta Ministrov SSSR (State Committee of the Council of Ministers of the USSR), and Ministerstvo vysshego obrazovaniya SSSR (Ministry of Higher Education of the USSR) was called to the necessity to improve and to extend the treatment of economical problems in chemical industry. Moreover, the tasks of the Institutes of the Academy of Sciences and of the State Planning Office of the USSR were discussed. It was pointed to the necessity to promote training in economics at chemical colleges, and to increase the publication of specialized literature treating questions of economics and planning of chemical production.

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5(2)

SOV/80-32-5-1/52

AUTHORS: Vol'fkovich, S.I., Ban'shchikova, T.A.

TITLE: The Modification of Potassium Metaphosphate by Means of Additions of Salts

PERIODICAL: Zhurnal prikladnoy khimii, 1959, Vol 32, Nr 5, pp 941-947 (USSR)

ABSTRACT: Potassium metaphosphate contains 39.8% K₂O and 60.13% P₂O₅ and can be used therefore as a highly concentrated fertilizer. The preparation of useful forms of monopotassium orthophosphate KH₂PO₄ by means of thermal dehydration and by addition of other salts is studied here. The experiments were made in the temperature intervals 320-330°C and 960-1,000°C. In the first series of experiments the initial salt was heated for 10-60 min, so that the solubility in water decreased from 55-56% to 9-13%, in a citrate-ammonia solution from 38-37% to 20-22%. If the dehydration proceeds to only 92%, the entire product is water-soluble. Various salts, like KCl, NaCl, CaCl₂, MgCl₂, MgCl₂ · 6H₂O, MgSO₄, MgO and CaO in quantities of 1-10% were used as additions in another series of experiments. Some of the salts showed positive results in experiments made by Zh.V. Kirillova. Potassium oxide produced the best effect. At 98%

~~Exhibit 1/3~~

Moscow State U.

SOV/80-32-5-1/52

'The Modification of Potassium Metaphosphate by Means of Additions of Salts

dehydration it converted 97.1% of the product into assimilable P_2O_5 . The second place is taken by magnesium sulfate, producing 92.6% at a dehydration of 99%. CaO , $MgCl_2$, MgO etc. increase the water-soluble part of the substance, but reduce the citrate-soluble part. KCl and $NaCl$ do not show any effect. At a temperature of 960-1,000°C a completely water-soluble product may be obtained by adding 1% of Fe_2O_3 , or 3% of $CaCl_2$, $MgCl_2$, $NaCl$, Al_2O_3 or 5% of SiO_2 . Potassium metaphosphate with 1% of Fe_2O_3 tested as a detergent showed 67% of the activity calculated on the base of barium chloride, and a product containing KPO_3 and $NaPO_3$ in equal quantities showed an activity of 81.5%. Thermographic investigations showed that most of the additions do not change the course of the dehydration process. There are: 2 graphs, 4 tables and 8 references, 4 of which are Soviet, 2 English, 1 American and 1 French.

Card 2/3

30(1)

AUTHOR:

Vol'fkovich, S.I., Academician (Moscow) SOV/26-59-2-3/53

TITLE:

Wider Use of Chemistry in Agriculture (Shire ispol'-zovat' khimiyu v sel'skom khozyaystve)

PERIODICAL: Priroda, 1959,⁴⁸ Nr 2, pp 7-11 (USSR)

ABSTRACT:

The author stresses the importance of wide introduction and use of different fertilizers and insecticides in agriculture. He describes different methods of use at home and abroad, of various fertilizers specifically adapted for different soils and cultures. The Nauchnyy institut po udobreniyam i insektofungitsidam im. Ya.V. Samoylova (Scientific Institute on Fertilizers and Insectifungicides imeni Ya.V. Samoylov) (NIUIF) are developing new fertilizers which will directly feed the plant and not the soil. Different herbicides and new defoliants are described. These preparations, when used on crops of cotton, cause the fall of useless leaves, thus simplifying the harvesting operations. Chemically prepared transparent films are used for covering the soil, thus preventing the evaporation process and protecting the crops from heat and cold. There is 1 photograph.

~~Classified~~

BARDIN, I.P., akademik, glavnny red. [deceased]; NEKRASOV, N.N., otd.
red.toma; SLAVIN, S.V., doktor ekon.nauk, red.toma; SHKOL'NIKOV,
M.G., kand.ekon.nauk, red.toma; LAVRENT'YEV, M.A., akademik, red.;
VOL'FKOVICH, S.I., akademik, red.; DIKUSHIN, V.I., akademik, red.;
NEMCHINOV, V.S., akademik, red.; VEYTS, V.I., red.; LEVITSKIY,
O.D., red.; PUSTOVALOV, L.V., red.; KHACHATUROV, T.S., red.;
ROSTOVTSYEV, N.F., akademik, red.; POPOV, A.N., red.; GRAFOV, L.Ye..
red.; GASHEV, A.D., red.; PROBST, A.Ye., prof., red.; VASUTIN,
V.F., prof., red.; KROTOV, V.A., prof., red.; VASIL'YEV, P.V.,
doktor ekon.nauk, red.; LYUDOGOVSKIY, G.I., kand.tekhn.nauk, red.;
LETUNOV, P.A., kand.geol.-mineral.nauk, red.; MAZOVER, Ya.A., red.
izd-va; KASHINA, P.S., tekhn.red.

[Comprehensive regional and interregional problems; [conference
reports]] Raionnye i mezhraionnye kompleksnye problemy; [trudy
konferentsii]. Moskva, Izd-vo Akad.nauk SSSR, 1960. 190 p.
(MIRA 14:1)

1. Konferentsiya po razvitiyu proizvoditel'nykh sil Vostochnoy
Sibiri. 1958. 2. Chleny-korrespondenty AN SSSR (for Nekrasov,
Veyts, Levitskiy, Pustovalov, Khachaturov). 3. Sovet po izucheniyu
proizvoditel'nykh sil pri Prezidiume Akademii nauk SSSR (for Nekrasov,
Shkol'nikov, Slavin). 4. Predsedatel' Soveta po izucheniyu pro-
izvoditel'nykh sil pri Prezidiume AN SSSR (for Nemchinov). 5. Vse-
soyuznaya akademiya sel'skokhozyaystvennykh nauk im. V.I.Lenina (for
Rostovtsev). 6. Deystvitel'nyy chlen Akademii stroitel'stva i arkhi-
tektury SSSR (for Panov). (Siberia, Eastern--Economic policy)

S/064/60/000/01/07/024
B022/B008

AUTHORS: Vol'fkovich, S. I., Margolis, F. G., Polyakov, N. N.

TITLE: Complex Fertilizers on the Basis of Phosphates Decomposed
With Nitric Acid ||

PERIODICAL: Khimicheskaya promyshlennost', 1960, No. 1, pp. 34 - 41

TEXT: The authors describe fertilizers containing several nutrients as "complex" ones, that is without considering whether the fertilizers were manufactured by mechanical or chemical means. Six methods of decomposition of phosphates with nitric acid are mainly used in practice in the USSR and abroad, i.e.: 1) with HNO_3 and H_2SO_4 ; 2) with HNO_3 and H_3PO_4 ; 3) with HNO_3 and $(\text{NH}_4)_2\text{SO}_4$ or other sulfates; 4) with HNO_3 and CO_2 ; 5) with HNO_3 only, with freezing out of $\text{Ca}(\text{NO}_3)_2$; 6) with HNO_3 only, a solid product - nitrophosphate - being produced at once. A list of foreign firms manufacturing complex fertilizers according to phosphate decomposition with nitric acid is given in Table 1. The chemism of the

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Complex Fertilizers on the Basis of Phosphates S/064/60/000/01/07/024
Decomposed With Nitric Acid B022/B008

various processes is discussed and the most important of them are described in detail. The composition of the products obtained by these various processes is given under special consideration of the individual forms of the P₂O₅ (Tables 2,3). A. I. Loginova, A. V. Rusadze, S. Ya. Shpunt, T. V. Glazova, and O. N. Simonova (NIUIF), A. G. Bergman, I. F. Bochkarev, A. P. Belopol'skiy, M. N. Shul'gina, A. I. Sverdlova, and M. I. Bogdanov as well as papers by the GIAF (State Institute of the Nitrogen Industry) are mentioned. There are 3 tables and 37 references, 21 of which are Soviet.

Card 2/2

53630

2209, 1231, 1266

S/062/60/000/007/010/017/XX
B004/B064AUTHORS: Kuskov, V. K., Fedorov, S. G., and Vol'fkovich, S. I.TITLE: The Synthesis of Organic Phosphorus Compounds by
Means of Interaction of Phosphoric Anhydride With
Aluminum PhenolatesPERIODICAL: Izvestiya Akademii nauk SSSR. Otdeleniye khimicheskikh
nauk, 1960, No. 7, pp. 1200 - 1205

TEXT: The authors aimed at synthesizing high-molecular organic phosphorus compounds which are stable to high temperatures. They proceeded from phosphoric anhydride, aluminum phenolates, and m-cresolates. An exothermic reaction occurred at 50°C when heating approximately equimolecular quantities of P_2O_5 (7.1 g) and aluminum phenolate (18.3 g) on a sand bath in the presence of 1 g NaOH. After 10 minutes, the mixture attained a temperature of 255°C. After another 15 minutes, heating was interrupted. The reaction product

X

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85667

The Synthesis of Organic Phosphorus
Compounds by Means of Interaction of
Phosphoric Anhydride With Aluminum Phenolates

S/062/60/000/007/010/017/XX
B004/B064

was extracted with 5% NaOH under shaking. When acidifying with 2 N HCl, a white crystalline powder precipitated. This substance was soluble in alkalies and could be precipitated again by acids. It was insoluble in water and organic solvents and only after long heating dissolved in ethanol amine or pyridine. On cooling the alkaline solution to -2°C, crystals of sodium salt precipitated as long colorless prisms. The phosphorus content of the substance was approximately 12%. Above 350°C, the substance melted and decomposed. It can be readily acetylated. The molecular weight determined from the hydroxyl number was 254 - 258. Picric acid was obtained on nitrating. Decomposition occurred with concentrated sulfuric acid and a mixture of sulfonic acids and resins formed. Bromination yielded a substance with approximately 47% bromine content which, as far as the outer appearance is concerned, did not differ from the initial substance. The same results were obtained with aluminum-m-cresolate; NaOH as catalyst was not necessary. The authors suggest

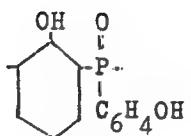
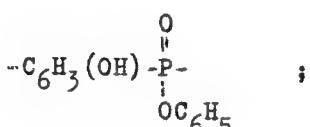
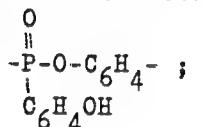
Card 2/
3

85667

The Synthesis of Organic Phosphorus Compounds by Means of Interaction of Phosphoric Anhydride With Aluminum Phenclates

S/062/60/000/007/010/017/xx
B004/B064

three structures:



(I)

(II)

(III)

Structure III is regarded as the most probable one since it is similar to the structure of the products of the phenol formaldehyde condensation. The joint polycondensation of phenol, paraform, Al-phenolate, and P_2O_5 could be easily carried out. On the other hand, it was not possible to obtain a grafted product from Al-phenolate, P_2O_5 and novolak resin. There are 1 table and 13 references: 1 Soviet, 6 US, 6 German, and 1 Swiss.

✓

Card 3/4

Moscow State U.

VOL'FKOVICH, S.I., akademik

New mineral fertilizers. Zemledelie 8 no.9:60-66 S '60.
(MIRA 13:8)
(Fertilizers and manures)

VOLFKOVICI, S.I. [Volfkovich, S.I.]; MARGOLIS, F.G.; POLEAKOV, N.N.
[Polyakov, N.N.]

Complex fertilizers obtained through the decomposition of phosphates
with nitric acid. Analele chimie 15 no.4:136-150 O-D '60. (EEAI 10:3)
(Fertilizers and manures) (Phosphates)
(Nitric acid)

VOL'FKOVICH, S.I., akademik; KOZLOV, V.V., doktor khim.nauk; LABANOV,
D.I., doktor tekhn.nauk; GRYUVER, V.S., doktor.tekhn.nauk;
VYSHELESSKIY, A.N., doktor tekhn.nauk; KOLESHIK, A.A., doktor
tekhn.nauk; BESSONOV, S.M., doktor biol.nauk

Letter to the editor. Masl.-zhir.prom. 26 no.8:40 Ag '60.
(MIRA 13:8)
(Oils and fats)

VOL'PKOVICH, S.I., akademik

Chemistry and agriculture. Nauka i zhizn' 27 no.8:62 Ag '60.
(MIRA 13:9)
(Agricultural chemistry)

5.1320,5.4110

78202
SOV/20-33-3-3/47

AUTHORS: Vol'fkovich, S. I., Illarionov, V. V., Ozerov, R. P.,
Remen, R. Ye.

TITLE: Concerning the Relationship Between the Composition
and Structure of Phosphates in the System $\text{CaO-P}_2\text{O}_5$ -
 SiO_2 and Their Digestibility by Plants

PERIODICAL: Zhurnal prikladnoy knimii, 1960, Vol 33, Nr 3, pp 524-532
(USSR)

ABSTRACT: Hydrothermal treatment of natural apatite, with the con-
sequent loss of F, produces a silicophosphate phase of
variable composition consisting of $\text{Ca}_3\text{tricalcium}$
phosphate as a base and including SiO_4 and SiO_3 . The
phosphorites, containing large amounts of silica and
calcium or magnesium carbonates, difficultly separable
or not at all by ore processing, elevate the mp
relative to that of apatite, and make hydrothermal
treatment impossible without addition of silica.

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Concerning the Relationship Between the Composition and Structure of Phosphates in the System $\text{CaO}-\text{P}_2\text{O}_5-\text{SiO}_2$ and Their Digestibility by Plants

78202
SOV/80-33-3-3/47

Consequently, new phases of silicophosphates with lower P_2O_5 content result. Seven phases (Fig. 2) were established, of which five had varying compositions with $\text{Ca}_3\text{Al}_2\text{O}_6$ -tricalcium phosphate or tetracalcium phosphate as the principal constituents. The authors sought to establish the structure of each phase and its relation to digestibility by plants. The X-ray photographs were taken with Cu-radiation and RKU-8 camera. The specimens proved to contain no thomasite. The same seven phases could be produced by adding limestone and silica to apatite before hydrothermal treatment. Solubility of each phase was examined by shaking 2 g of it with 300 ml distilled water at $20 \pm 3^\circ\text{C}$ for 8 hr, letting it stand overnight, shaking the filtered-out residue with another 300 ml distilled water, and so on for 10 consecutive days. Another 2 g of each specimen was boiled with distilled water for 8 hr, left sealed overnight, filtered, and the residue treated in a similar way for

Card 2/5

78202, 300/66-33-3-3747

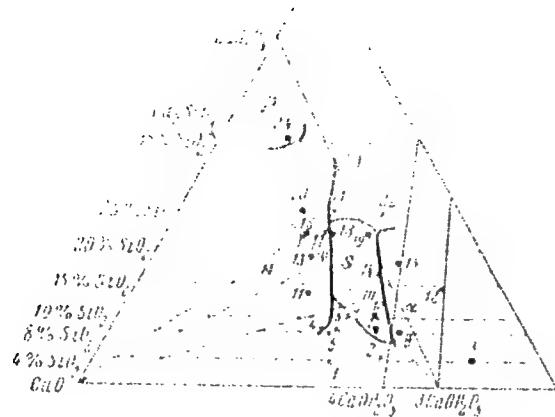


Fig. 2. Phase diagram for CaO-P₂O₅-SiO₂ system. (I) 9CaO·P₂O₅·3SiO₂; (II) 7CaO·P₂O₅·2SiO₂; (III) 5CaO·P₂O₅·SiO₂; (IV) napelschilitite; (S) sillicacarnotite; (α) α-Ca₃P₂O₈; (β) β-Ca₃SiO₄; heavy dots = homogeneous, x = heterogeneous specimens.

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Concerning the Relationship Between the Composition and Structure of Phosphates In the System CaO-P₂O₅-SiO₂ and Their Digestibility by Plants

78292
SOV/80-33-3-3/47

30 days. Each partial filtrate and final residue was assayed for CaO and P₂O₅ content, and its pH determined. The assays proved 10-30 times more rapid leach of Ca²⁺ than of PO₄³⁻ ions during the first 5 days, after which a constant ratio of 2 ions was achieved, but pH continued to drop. P₂O₅ concentration in the residue leads to structure alterations (except in SiO₂ + CaO rich silicophosphates), to the formation of hydroxylapatite whose presence reduces citrate-solubility of P₂O₅. Some of the specimens were tested in the Agrochemical Laboratory of the Scientific Research Institute of Fertilizers and Insectifuges (NIUIF) as to their digestibility by vegetation on sandy, sandy-clay, carbonaceous, alkaline, and acid soils. In 34 cases out of 36, harvest was improved 1.6 to 9.9-fold. Silicophosphates rich in CaO and SiO₂ proved to be most

Card 4/5

Concerning the Relationship Between the Composition and Structure of Phosphates in the System $\text{CaO-P}_2\text{O}_5-\text{SiO}_2$ and Their Digestibility by Plants

78202
SCV/29-33-3-3.47

effective in neutral and alkaline soils, while acid soils showed no preference to one or another silicophosphate. A. B. Sokolov and T. D. Koritskaya are thanked for presenting the data of agrochemical experiments. There are 2 figures; 3 tables; and 19 references, 6 Soviet, 4 German, 3 Polish, 3 U.S., 2 French, 1 Belgian. The U.S. references are: R. L. Barrett, W. I. McCaughey, Am. Mineralogist, 27, 880 (1942); W. I. Whitney, C. A. Hollingsworth, Ind. Eng. Ch., 41, 1235 (1949); K. L. Elmor, E. O. Huffman, W. W. Wolf, Ind. Eng. Ch., 24, 40 (1942).

SUBMITTED: October 24, 1959

Card 5/5

VOL'FKOVICH, S.I., STRONGIN, G.M., REMEN, P.Ye., PISAREV, K.Ye.;
SHISHKINA, A.I.

Methods for the producting of zinc phosphide and its use in the
control of murine rodents. [Trudy] NIUIF no.167:5-31 '60.
(MIRA 13:8)

(zinc phosphide)
(Rodent baits and repellents)

VOL'FKOVICH, S. I., REMEN, R. Ye.

Aluminum phosphide. [Trudy] NIUIF no.167:32-42 '60.
(MIRA 13:8)
(Aluminum phosphides)
(Seeds—Disinfection)

VOL'FKOVICH, Semen Isaakovich; GOL'DENBERG, G.S., red.; LAZAREVA, L.V.,
tekhn. red.

[Chemistry in the struggle for improvement of agriculture and
stockbreeding] Khimia v bor'be za pod'mem zemledeliia i zhivotno-
vodstva. Moskva, Izd-vo Mosk.univ., 1961. 53 p. (MIRA 14:12)
(Agriculture—Fertilizers and manures)
(Stock and stockbreeding—Feeding and feeds)

ARBUZOV, A.Ye., akad.; VAVILOV, S.I., akad.; VOL'FKOVICH, S.I., akad.; KOCHINA, P.Ya., akad.; LANDSBERG, G.S., akad.; LEYBENZON, L.S., akad.; FORAY-KOSHITS, A.Ye., akad.; SMIRNOV, V.I., akad.; FESEN'KOV, V.G., akad.; CHERNYAYEV, V.I., akad.; KAPUSTINSKIY, A.F.; KORSEAK, V.V.; KRAVKOV, S.V.; NIKIFOROV, P.M.; PETROV, A.D.; PREDVODITELEV, A.S.; FRISH, S.E.; CHETAYEV, N.G.; CHMUTOV, V.K.; SHOSTAKOVSKIY, M.F.; KUZNETSOV, I.V., red.; MIKULINSKIY, S.R., red.; MURASHOVA, N.Ya., tekhn.red.

[Men of Russian science; essays on prominent persons in natural science and technology: Mathematics, mechanics, astronomy, physics, chemistry] Liudi russkoi nauki; ocherki o vydaiushchikhsia deiate-liakh estestvoznaniiia i tekhniki: matematika, mekhanika, astronomiia, fizika, khimiia. Moskva, Gos. izd-vo fiziko-matem. lit-ry, 1961.
599 p. (MIRA 14:10)

1. Chleny-korrespondenty AN SSSR (for Kapustinskiy, Korshak, Kravkov, Nikiforov, Petrov, Predvoditelev, Frish, Chetayev, Chmutow, Shostakovskiy).
(Scientists)

LUK'YANOV, Pavel Mitrofanovich, prof., doktor tekhn.nauk; VOL'FKOVICH,
S.I., akademik, red.; BANKVITSER, A.L., red.izd-va; MAGANOVA,
I.A., tekhn.red.

[History of chemical trades and of the chemical industry in Russia
up to the end of the 19th century] Iстория химических про-
myslov i khimicheskoi promyshlennosti Rossii do kontsa XIX veka.
Pod red. S.I.Vol'fkovicha. Moskva, Izd-vo Akad.nauk SSSR.
Vol.5. 1961. 703 p. (MIRA 14:6)
(Explosives)

S/030/61/000/005/007/012
B105/B202

AUTHOR: Vol'fkovich, S. I., Academician

TITLE: Importance and tasks of chemical technology

PERIODICAL: Akademiya nauk SSSR. Vestnik, no. 5, 1961, 60 - 69

TEXT: The author attempts to describe the development of up-to-date chemical technology as the theoretical basis of industrial production. Chemical technology is not only the basis of the chemical industry but also of the metallurgical, glass, textile, cotton, cellulose, leather, and food industry as is shown by the paper of the outstanding physical chemist D. P. Konovalov. The present stage of development requires a comprehensive mechanization and automation of technology. This part of chemical technology should be treated as a special branch in which the achievements of physics, mechanics, heat engineering, and electrical engineering should be utilized. The establishment of a special branch of chemical technology "chemical materiology" is also regarded as justified. 1) Rules and methods of chemical technology. Physical chemistry, especially kinetics and thermodynamics have become of increasing importance. The application of

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Importance and tasks of chemical...

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the "similarity theory" and the rules governing simulation are regarded as the important tasks of chemical technology. The rising industrialization in the Soviet Union requires the establishment of numerous test plants and simulation apparatus for testing, defining, and evaluating the results of laboratory studies. 2) Present state and problems of chemico-technological studies. The study of physico-chemical rules as well as of the similarity theory and the simulation rules of chemical apparatus are insufficient. Furthermore many achievements in chemical materialogy are insufficiently generalized and theoretically insufficiently substantiated. Above all, the kinetics of the processes for separating gases from liquids as well as the physico-chemical bases of absorption and purification of gases should be investigated. The thermodynamical studies into the effect of high and superhigh temperatures, superhigh pressures of the vacuum on the course of chemical reactions and technological methods must be intensified. Intensification of scientific work in the thermochemistry of high and superhigh temperatures is also regarded as necessary. The Laboratorii vysokikh i sverkhvysokikh davleniy Akademii nauk SSSR (Laboratories for High and Super-high Pressures of the Academy of Sciences USSR) as well as of Moskovskiy universitet 'Moscow University) are conducting chemico-technological

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Importance and tasks of chemical...

research work. The establishment of a system of research institutes and laboratories is suggested for the solution of numerous theoretical tasks of chemical technology. Great importance is attached to the development of theoretical bases, standards, and concrete solutions of problems of automation as well as of remote control of chemico-technological processes by using computers. For a more rapid solution of these tasks not only chemists, but also physicists, heat engineers, electrical engineers, and other scientists have to cooperate. There are 3 references: 2 Soviet-bloc and 1 non-Soviet-bloc. The two references to English-language publications read as follows: G. Box, K. Wilson. I. Royal Statistical Soc. 13,1 (1959); D. E. Box, I. S. Hunter, "Annals of Mathematical Statistics", 1957, v. 28, p. 195.

Card 3/3

VOL'FKOVICH, S.I.; IONASS, A.A.; MEL'NIKOV, Ye.B.; REMEN, R.Ye.; SIDEL'KOVSKIY,
L.N.; TROYANKIN, Yu.V.; SHURYGIN, A.P.; YAGODINA, T.N.

Hydrothermal treatment of phosphates in a cyclone furnace. Khim.
prom. no.6:394-399 Je '61. (MIRA 14:6)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut udobreniy i
insektofungitsidov i Moskovskiy energeticheskiy institut.
(Phosphates)

25049
S/064/61/000/007/001/005
B124/B206

5 2420

AUTHORS: Boguslavskiy, I. M., Vol'fkovich, S. I., Kazakova, S. B.,
Bogdanova, N. S.

TITLE: Production of hydrogen fluoride from silicon tetrafluoride

PERIODICAL: Khimicheskaya promyshlennost', no. 7, 1961, 6 - 8

TEXT: During the production of superphosphate fertilizers by decomposition of apatite and phosphorites with sulfuric acid, about 45% of the fluorine present in the ore escapes in the form of SiF_4 , together with the waste

gases. HF can be produced from SiF_4 by the process studied and proposed in this paper, without great capital investment for the raw material production. Production cost of HF is also greatly reduced due to complete utilization of SiF_4 for the production of HF and high-quality SiO_2 . The process

consists of two main stages: production of solid ammonium fluoride and -bifluoride from SiF_4 -containing gases and decomposition of ammonium

fluoride and -bifluoride by means of sulfuric acid, by which HF and $(\text{NH}_4)_2\text{SO}_4$ are obtained. The main reactions of the first stage are:

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$\text{SiF}_4 + 2\text{NH}_4\text{F} = (\text{NH}_4)_2\text{SiF}_6$ (1); $(\text{NH}_4)_2\text{SiF}_6 + 4\text{NH}_3 + 2\text{H}_2\text{O} = 6\text{NH}_4\text{F} + \text{SiO}_2$ (2); $2\text{NH}_4\text{F} \rightarrow \text{NH}_4\text{F}\cdot\text{HF} + \text{NH}_3$ (3). SiF_4 is absorbed by a recycled NH_4F solution; reaction (1) takes place in the absorption apparatus. The $(\text{NH}_4)_2\text{SiF}_6$ solution obtained is led from the absorption apparatus for neutralization with ammonia, which is carried out under continuous cooling of the NH_4F solution formed. The precipitated SiO_2 is filtered off and rinsed with water. The greater part of the mother liquor is led to the evaporator, and the rest in the form of a 10-12% solution to the absorption of SiF_4 . The NH_4F solution is evaporated to a salt concentration of 94-95%, reaction (3) taking place. The ratio between ammonium fluoride and bifluoride in the evaporated solution depends on the boiling point of the solution. Table 1 shows data on the evaporation of NH_4F at various temperatures and pressures; practically no fluorine is present in the condensate at 147°C , and the sum of the salts in the solution reaches 98% in this case. The solution solidifies at about 100°C . The solid $\text{NH}_4\text{F}\cdot\text{HF}$ - NH_4F salt mixture with a total fluorine content of 60% represents an

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intermediate product in the production of HF. The second stage of the process can be characterized by the reactions: $\text{NH}_4\text{F}\cdot\text{HF} + \text{H}_2\text{SO}_4 = \text{NH}_4\text{HSO}_4 + 2\text{HF}$ (4); $\text{NH}_4\text{F} + \text{H}_2\text{SO}_4 = \text{NH}_4\text{HSO}_4 + \text{HF}$ (5) and $\text{NH}_4\text{HSO}_4 + \text{NH}_3 = (\text{NH}_4)_2\text{SO}_4$ (6). 93-95% sulfuric acid is used for the decomposition of the salt mixture consisting of 80% ammonium bifluoride and 20% ammonium fluoride; decomposition is carried out at 180-190°C. Table 2 shows the experimental results for the decomposition of NH_4F with sulfuric acid in a steel-boat, which was placed in an electric tubular furnace with a constant stream of dry air; the experiments were conducted with temperatures maintained constant to within $\pm 3^\circ$. The heating time varied from 5 to 30 min. The HF evolved was absorbed by water in vessels made from organic glass, the melt was weighed, analyzed for residual fluorine, and the fluorine yield was calculated. With 30 min reaction time and 180-190°C, the fluorine yield amounts to 97-98%. The ammonium bisulfate melt obtained contains about 40% free sulfuric acid. Neutralization of the latter with the calculated amount of ammonia converts the ammonium bisulfate into ammonium sulfate. Fig. 4 shows the decomposition curve of ammonium fluoride and -bifluoride with sulfuric acid as a function of its concentration, calculated for ammonium bisulfate (decomposition time 40 min at 195°C). On the basis of Card 3/6

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laboratory results, the pilot plant of the NIUIF under the direction of V. D. Podkopayev, designed a pilot installation for the production of HF by decomposition of ammonium fluoride and -bifluoride with sulfuric acid, which yielded good results. In order to select the most corrosion-resistant material for the thickener and reactor, the steel types investigated were immersed in aqueous solution with 26% NH₄F and 19% NH₄F·HF; the

specimens were in a vessel made from ATM-1 (ATM-1) graphite, with an external heating coil. The solution was periodically heated for 7 hr daily, the specimens being held for 120 hr at 80°C and 880 hr at room temperature. Steel of the type X23H28N3D3T (Kh23N28M3D3T) was most corrosion-resistant. Moreover, the most resistant material was ascertained in a molten mixture of H₂SO₄, NH₄F, and NH₄F·HF at 190-200°C, the specimen being fixed to the bottom of the vessel by a Teflon strip and the melt being mixed by a mechanical mixer. The test lasted 92 hr with a continuous feed of the mixture, and showed that steels of the type X23H23M3D3 (Kh23N23M3D3) and 0X23H28M3D3T (OKh23N28M3D3T) are the most resistant. Data obtained for CT-0 (St-0) steel (loss in weight 43.0 g/m²·hr) need a checkup under working conditions. There are 4 figures and 2 tables.

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ASSOCIATION: NIUIF

Table 1: Evaporation of ammonium fluoride solutions at various temperatures and pressures.

Legend: 1) pressure, mm Hg; 2) temperature, °C; 3) composition of the evaporated solution, %; 4) sum of the salts.

Давление мм рт. ст.	Темпера- тура °C	Состав упаренного раствора, %			NH ₃ F
		F	NH ₃	сумма солей	
760	126	40,65	27,69	70,49	0,681
760	146	57,14	30,89	91,99	0,542
760	151	59,55	31,30	93,98	0,525
560	113	35,53	25,13	62,54	0,707
560	115	38,06	26,69	64,75	0,703
460	109	36,79	26,54	65,61	0,722
460	123	50,47	29,79	82,91	0,590
460	130	54,70	30,86	88,43	0,560
460	142	59,50	32,63	95,25	0,549
460	147	62,33	32,61	98,21	0,523

Tab. 1

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Production of hydrogen...

Table 2: Decomposition of ammonium fluoride with sulfuric acid (heating temperature 180°C)

Legend: 1) length of heating, min;
2) taken, g; 3) fluorine yield, %;
4) heating temperature 190°C.

1) Продолжи- тельность нагрева минуты	2) Взято, г		3) Выход по фтору %
	NH ₄ F	H ₂ SO ₄	
5	5	10,72	42,0
10	5	10,72	80,0
20	5	10,72	93,0
20	15	34,4	96,0
20	15	34,4	94,0
30	5	10,72	96,8
30	5	10,72	98,3
30	15*	33,8	97,4
30	15*	33,8	96,7
40	5	10,72	97,0
60	5	10,72	98,0

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Fig. 4: Decomposition curve of ammonium fluorides with various amounts of H₂SO₄ (% of the stoichiometric amount, calculated for ammonium bisulfate).

Legend: A) degree of separation of F, %.

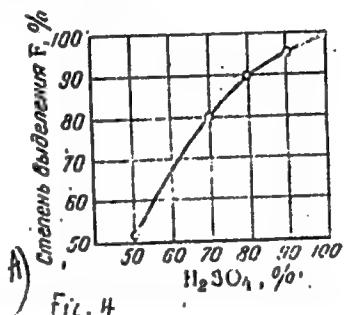


Fig. 4

BOGUSLAVSKIY, I.M.; VOL'FKOVICH, S.I.; BODANOV, N.S.

Production of hydrogen fluoride from silicon tetrafluoride.
IS.zm. prom. no.7:45C-452 Jl '61. (MIRA 14:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut ucheniy i
inspektorfungitsidov.
(Hydrofluoric acid)
(Silicon fluoride)

VOL'FKOVICH, S.I.

Development of inorganic chemistry industries in the U.S.S.R.
Trudy Inst.ist.est. i tekhn. 35:330-350 '61. (MIR: 14:9)
(Chemistry, Inorganic)

VOL'FKOVICH, S.I., akademik

Ways of introducing chemistry into agriculture. Khim. v.
shkole 16 no.5:6-17 S-0 '61. (MIRA 14:9)
(Agricultural chemistry)

VOL'FKOVICH, S.I., akademik

Progress of chemistry in agriculture. Khim. v shkole 16 no.6:
9-18 N-D '61. (MIRA 14:11)
(Agricultural chemistry)

VOL'FKOVICH, S.I., akademik

Current importance and aims of chemical technology. Vest.AN SSSR 31
no.5:60-69 My '61. (MIFI A 14:6)
(Chemistry, Technical)

VOL'FKOVICH, S.I.

Physicochemical analysis and technology of mineral fertilizers.
Zhur.prikl.khim. 34 no.10:2133-2146 O '61. (MIRA 14:11)
(Fertilizers and manures—Analysis)

VOL'FKOVICH, S.I., akademik

The yields of field crops have to be increased; new fertilizers in
agriculture. Priroda 50 no.10:75-81 O '61. (MIRA 14:9)
(Fertilizers and manures)

VOL'FKOVICH, S.I., akademik; KHAYKOV, V., uchitel'; KOLDASHEV, A.M.

Editor's mail. Khim. v shkole 17 no.2:88-90 Mr-Ap '62. (MIRA 15:3)

1. Lukhovitskaya srednyaya shkola No. 1, Moskovskoy oblasti (for
Khaykov).

(Chemistry--Study and teaching)

KATALYMOV, M.V.; UNANYANTS, T.P.; VOL'FKOVICH~~S~~, S.I., akademik, red.;
ORLOVA, I.A., otv. red.; GONCHAROV, N.G., tekhn. red.

[Production and use of trace elements in the U.S.S.R. and abroad]
Proizvodstvo i primenenie mikroudobrenii v SSSR i za rubezhom. Pod
red. S.I.Vol'fkovicha. Moskva, Vses. in-t nauchn. i tekhn. infor-
matsii, 1960. 37 p.
(Trace elements)

SOLOMONOVA, Nadezhda Leonidovna; VOL'FKOVICH, S.I., akademik, akad.;
KONDRASHKOVA, S.F., red.; GUR'yANOV, V.P., tekhn.red.

[Analysis of gases] Gazovyj analiz. Moskva, Izd-vo
Mosk. univ. 1957. 35 p. (Laboratornyj praktikum po khimicheskoi
tekhnologii, no.2) (MIRA 17:1)

SMIRNOVA, Z.G.; ILLARIONOV, V.V.; VOL'FKOVICH, S.I.

Heats of formation of fluorapatite, hydroxylapatite, and
tricalcium phosphates (α - and β -modifications). Zhur.
neorg. khim. 7 no.8:1779-1782 Ag '62. (MIRA 16:6)

1. Nauchno-issledovatel'skiy institut udobreniy i insektofungi-
sidov.

(Apatite) (Hydroxylapatite)
(Calcium phosphate) (Heat of formation)

SOKLAKOV, A.I.; ILLARIONOV, V.V.; VOL'FKOVICH, S.I.; REMIN, R.Ye.

X-ray study of products of the hydrothermal decomposition of
phosphorites in the Kara-Tau. Rent.min.syr. no.1:146-148 '62.
(MIRA 16:3)

1. Nauchno-issledovatel'skiy institut po udobreniyam i
insektofungisidam imeni Ya.V.Samoylova.
(Kara-Tau--Phosphorite) (X-ray crystallography)

VOL'FKOVICH, S.I., akademik

Problems of the chemicalization of agriculture today. Vest.
AN SSSR 32 no.9:30-48 S '62. (MIRA 15:9)
(Agricultural chemistry)

VOL'FKOVICH, S. I., akademik

Basic trends in the development of the chemical technology of
mineral fertilizers. Zhur, VKHO 7 no.5:482-488 '62.
(MIRA 15:10)

(Fertilizer industry)

VOL'FKOVICH, S. I., akademik

Basic trends in the development of the chemical technology of
mineral fertilizers. Zhur. VNIIO 7 no.5:482-488 '62.
(MIRA 15:10)

(Fertilizer industry)

~~VOL'PKOVICH, S. I., akademik; IONASS, A. A., kand. tekhn. nauk;~~
~~REMEN, R. Ye., kand. tekhn. nauk~~

Production of feed phosphates. Zhur. VKHO 7 no.5:524-529 '62.
(MIRA 15:10)

(Phosphate industry—By-products) (Feed)

VOL'FKOVICH, S.I.; ILLARIONOV, V.V.; REMEN, R.Ye.; SOKLAKOV, A.I.

Concentration region of stability of hydroxylapatite. Zhur.-
prikl.khim. 35 no.6:1163-1171 Je '62. (MIRA 15:7)
(Calcium phosphates) (Hydroxylapatite)

VOL'FKOVICH, Semen Isaakovich; KOROBTSOVA, N.A., red.; LAZAREVA,
L.V., tekhn. red.

[Chemical technology as a science and its objectives] Khimicheskaiia tekhnologiiia kak nauka i ee zadachi. Moskva, Izd-vo Mosk. univ., 1961. 32 p.
(MIRA 15:11)
(Chemistry, Technical)

VOL^oPKOVICH, S.I.

Modern chemical technology and its objectives in the light of
the decisions of the 22d Congress of the CPSU. Vest.Mosk.un.Ser.2:
Khim. 17 no.2&3-14 Mr-Ap '62. (MIRA 15:4)
(Chemistry, Technical)

VOL'FKOVICH, S.I., akademik

[Scientific research work on the technology of phosphorus fertilizers and sulfuric acid carried out from 1958 to 1961 and immediate tasks of research; report to the All-Union Branch Conference of Workers in the Sulfuric Acid and Phosphorus Fertilizer Industries] Nauchno-issledovatel'skie raboty po tekhnologii fosfornykh udobrenii i sernoi kisloty, provedennye v 1958-1961 gg., i ocherednye zaduchi issledovaniia; doklad na Vsesoiuznom otrazhlevom soveshchanii rabotnikov promyshlennosti sernoi kisloty i fosfornykh udobrenii 23 avgusta 1961 g. v Rige. Moskva, Laboratoriia nauchno-tekhn. informatsii, 1961. 23 p. (MIRA 15:9)

(Sulfuric acid)

(Fertilizers and manures)

VOL'FKOVICH, S.I.; ILLARIONOV, V.V.; REMEN, R.Ye.; SOKLAKOV, A.I.

Synthesis of tricalcium phosphate based on a solid-phase reaction.
Zhur.prikl.khim. 35 no.6:1165-1167 Je '62. (MIRA 15:7)
(Calcium phosphates)

VOL'FKOVICH, S., akademik

Extensive use of chemistry is a guarantee of abundance. NTO 4
no.5:13-14 My '62. (MIRA 15:5)

l. Vitse-prezident Vsesoyuznogo khimicheskogo obshchestva imeni
D.I.Mendeleyeva.
(Agricultural chemistry)

SOKLAKOV, A.I.; VOL'FKOVICH, S.I.; ILLARIONOV, V.V.; REMEN, R.Ye.

Effect of magnesium on the hydrothermal treatment of phosphates.
Zhur.prikl.khim. 35 no.7:1405-1410 Jl '62. (MIRA 15:8)
(Phosphates) (Magnesium)

VOL'FKOVICH, S.I., akademik

Application of chemistry in agriculture. Priroda 51
no.11:24-32 N '62. (MIRA 15:11)
(Agricultural chemistry)

VOL'FKOVICH, S.I., akademik (Moskva)

Founder of Russian agricultural chemistry; D.N. Prianishnikov and
the chemicalization of agriculture. Priroda 51 no.10:93-95
0 '62. (MIRA 15:10)
(Prianishnikov, Dmitrii Nikolaevich, 1865-1948)
(Agricultural chemistry)

~~VOLFKOVICH, Semen Isaakovich~~, akademik; TAIASENKO, V.M., red.izd-va;
MAKOGONOVA, I.A., tekhn. red.

[Chemistry in agriculture] Khimiia v sel'skom khozaiistve.
Moskva, Izd-vo AN SSSR, 1963. 51 p. (MIRA 16:9)
(Agricultural chemistry)

ALEKSANDROVA, G.G.; ZHUKOVA, V.A.; KONDRAT'YEV, N.N.; KUSKOV, V.K.;
MALETS, A.M.; SOLOMONOVA, N.L.; FEDOROVICH, R.M.;
VOL'FKOVICH, S.I., akademik, red.; KOROBTSOVA, N.A., red.;
YERMAKOV, M.S., tekhn. red.

[Work in technology] Tekhnologicheskie raboty. Moskva, Izd-
vo Mosk. univ. 1963. 115 p. (Laboratornyi praktikum po khi-
micheskoi tekhnologii, no.4) (MIRA 17:1)

VOLFKOVICH, S. I. [Vol'fkovich, S. I.], akad.; PONEVA, L. [translator]

Current problems of chemization in rural economy. Biol i khim
6 no. 3: 7-18 '63.

ARKHIPOVA, L.V.; VOL'FKOVICH, S.I.; IGNATOVA, N.P.; KOGAN, L.M.; STROGANOV, N.S.

Use of hexachlorobutadiene for combating "blooming" of industrial water. Khim.prom. no.7:498-501 Jl '63. (MIRA 16:11)

1. Moskovskiy gosudarstvennyy universitet i Vsesoyuznyy nauchno-issledovatel'skiy institut khimicheskikh sredstv zashchity rasteniy.

VOLFKOVICI, S.I.

Présent problems of agricultural chemistry. Rev chimie Min petr
14 no.5:251-259 My '63.

L 17890-63

EWP(q)/EWT(m)/BDS

AFFTC

RDW/JD

S/0080/63/036/C06/1169/1174

60

5-7

ACCESSION NR: AP3003763

AUTHORS: Vol'fkovich, S. I.; Kondrat'yev, N. N.; Bartosevich, N. Z.; Morozov,
I. F.; Panasova, N. I.TITLE: Separation of ³⁷selenium from nitrosylsulfuric acid

SOURCE: Zhurnal prikladnoy khimii, v. 36, no. 6, 1963, 1169-1174

TOPIC TAGS: selenium, nitrosylsulfuric acid, sulfur

ABSTRACT: A number of various methods of analysis have been examined for the determination of selenium in sulfur-selenium concentrate. The extraction of selenium was carried out with sulfur at a temperature of 130°C, and the precipitation was always complete. From the laboratory experiments the following conclusions were made: (i) the extraction of selenium by means of elemental sulfur from nitrosylsulfuric acid is complete if the temperature is higher than 120°C; (ii) the sulfur-selenium concentrate precipitates and quickly falls to the bottom. The sulfuric acid in this case can be decanted; (iii) when using elemental sulfur in the above precipitation, nitrosylsulfuric acid is not contaminated with impurities as is the case when other reducing agents are used; (iv) with an increase in temperature, the process of reducing selenium compounds increases; (v) for

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Card

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ACCESSION NR: AP3003763

the separation of selenium from nitrosylsulfuric acid, it is sufficient to add only 0.2-0.3% of sulfur based on the total weight of acid; (vi) the reduction process of selenium compounds and the separation of selenium with natural or "gaseous" sulfur takes place quicker than with pure sulfur. Orig. art. has 4 tables and 1 formula.

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